Information

OpenStage WL3

Take advantage of WLAN networks with powerful Voice over Wireless LAN (VoWLAN) endpoint solutions from Siemens Enterprise Communications.

SIEMENS

Wireless voice solutions

As enterprises benefit from the cost savings and simplified management of converged voice and data networks, consider the power of including wireless device communication on the same network.
OpenStage WL3 devices use your WLAN infrastructure to empower employees to freely move about the workplace ultimately improving productivity.

Our solution

OpenStage WL3 telephones provide an enterprise-grade wireless voice solution that unites our experiences from WLAN and DECT for the best priced mobile device of its class.

As one of the best-in-class VoWLAN solutions, OpenStage WL3 delivers a high voice quality, industry-standard security features and a superb user interface. Above all, it operates in IEEE 802.11b/g and in IEEE 802.11a/n environments, so all of your connected devices receive the maximum data transfer rate, for optimal performance.

The IEEE 802.11 standard allows the new VoWLAN telephones to be deployed with 802.11-compatible access points in many network environments. Additional functionality is provided with an Enterasys WLAN infrastructure.

The SIP-compliant OpenStage WL3 telephones can be operated with the SIP interfaces of the below mentioned platforms, which also let you enjoy the powerful VoWLAN telephone features.

Beautifully designed and fully-featured, the OpenStage WL3 comes equipped with a colored, backlit graphical display for easy to access phone features under sub-optimal conditions. Plus optional features such as advanced alerting and messaging make the range of OpenStage WL3 devices ideal for healthcare, retail, logistics or manufacturing industries.

Our telephones

Our WLAN endpoint family consists of the OpenStage WL3 and OpenStage WL3 Plus and come standard with the following features:

- Compatible to the IEEE 802.11b/g and IEEE 802.11a/n WLAN standards
- Usage of the Session Initiation Protocol (SIP) over WLAN to maintain voice communication
- Intuitive user interface on a large color display
- Centralized management

Advanced optional features for the OpenStage WL3 Plus include:

- Interactive messaging to receive and send messages
- Advanced alarming & positioning

OpenStage WL3

OpenStage WL3 is our entry-level VoWLAN telephony device. To expand its capabilities, a message license can be applied to benefit from the advanced messaging functionality.

OpenStage WL3 Plus

At the top of the VoWLAN product offering stands the OpenStage WL3 Plus delivering VoWLAN telephony, but also messaging and personal advanced alarm functionality.

Characteristics

Platforms

OpenStage WL3 telephones were tested on the following platforms:

- HiPath 3000 (from V9)
- HiPath 4000 (from V5)
- OpenScape Office (from V3)
- OpenScape Business (from V1)
- OpenScape Voice (from V6)

OpenStage WL3 telephones communicate to all of these platforms via SIP.

Environment

OpenStage WL3 telephones are designed for enterprises that deploy WLAN and IP infrastructure and HiPath/OpenScape communication systems or other SIP-based communication systems.

Physical

- Dimensions (l × w × d):
  134 × 53 × 26 mm
  (5.27" x 2.09" x 1.02")

- Weight: 135 g

- Color: Black

- Display size (w × h):
  28 x 35 mm (1.10" x 1.38")

- Battery type: Li-polymer

Connectors

- Multi-purpose connector for battery charging, software download and configuration

- Headset connector:
  2.5 mm (2") phone jack

User interface

- Display: TFT display with multiple colors with high resolution, more than 65,000 colors. 176 × 220 pixel LCD with white LED backlighting

- Indicator: LED on top/front for visual indication of events and normal function. The LED may also be used for visual indication of a message.

- Silent alarm (vibration)

- Buttons/keypad:
  - 12 dial keys (3x4): 0 – 9, # and *
  - 3 soft keys for dynamic feature access
  - off-hook key
  - on-hook and power on/off on the same key
  - five-way navigation key
  - sound-off side key
  - volume up/down side key
  - multifunction button at the top
  - 10 hot keys (0, 2 – 9) for fast feature access

Audio

- Ring signal:
  Adjustable in 8 steps and silent

- Loudspeaker function

- Hearing aid compatible (HAC)

Languages

Multi-language user interface in 18 languages, those are: Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Norwegian, Polish, Portuguese (Brazilian), Russian, Slovak, Spanish, Swedish and Turkish + 1 customizable.

Phonebook options

- Local phonebook:
  - maximum 200 entries
  - selectable ring tones per contact

- Company phonebook:
  - maximum 1,000 entries

- Central phonebook:
  - access to LDAP (system-dependent)

Telephony

- Indication: 14 ring signals, flashing LED and vibrator

- Call list storage capacity: 25 calls (received, dialed and missed) with time stamp

- Voice codecs: G.711 A-law (EU), G.711 μ-law (US), G.729, G.729A, G.722

- SIP registration to a SIP proxy/registrar

Messaging

This feature is available for OpenStage WL3 including a messaging license and comes standard with the OpenStage WL3 Plus.

- Maximum message length from OpenStage WL3: 160 characters

- Storage capacity:
  30 messages received/sent

Alarm

This feature is available for OpenStage WL3 Plus.

- Alarm types: 2 push button alarms

- Man-down and No-movement alarm

- Acoustic location signal at alarm

- Automatic call after alarm

Radio specification

- Receiver sensitivity (typical values):
  - -87 dBm (802.11a, 6 Mbps),
    -93 dBm (802.11b, 1 Mbps)
  - -87 dBm (802.11g, 6 Mbps),
    -86 dBm (802.11n, MCS0)

- Frequency range:
  - EU:
    b/g: 2.4 to 2.4835 GHz (ch. 1 to 13)
    a: 5.15 to 5.35 GHz (ch. 36 to 64),
    5.47 to 5.725 GHz (ch. 100 to 140)
  - USA/Canada:
    b/g: 2.4 to 2.4835 GHz (ch. 1 to 11)
    a: 5.15 to 5.35 GHz (ch. 36 to 64),
    5.47 to 5.85 GHz (ch. 100 to 165)

- Maximum output power:
  100 mW / 20 dBm

- Modulation speed:
  - b: 1, 2, 5.5, 11 Mbps
  - a, g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
  - n: MCS0-7

Protocols

- TCP/IP

- IP addressing: DHCP, fixed

- Configurable DSCP

- DNS support (primary/secondary)

- SIP/RTP

- UDP

- SRTP/TLS (SDES RFC4568)

- SNMP

WLAN

- Number of networks: 4 systems, auto selection and manual selection

- Quality of Service (QoS): WMM, TSPEC-based CAC

- Supported networks: 802.11 a/b/g/n (MCS0-7, 20 MHz, GI = 800ns)

WLAN security

- Security standard: 802.11i

- Encryption methods: 64/128 bits WEP, TKIP, AES-CCMP

- Authentication methods: 802.1X
  - Original 802.11 open/shared key authentication
  - WPA-PSK

  - WPA2-PSK
  - PEAP-MSCHAPv2
  - EAP-TLS
  - EAP-FAST

WLAN roaming enhancement

- Pre-authentication

- Opportunistic key caching

- PMKSA caching

- CCKM

Environmental

- Operating temperature:
  -5 °C to +45 °C (+23 °F to +113 °F)

- Storage temperature:
  -25 °C to +55 °C (-13 °F to +131 °F)

- Charging temperature: ≥5 °C (≥41 °F)

Enclosure protection

IP44, IEC EN 60529

Additional features

- Time and date indication

- Customized GUI

- Profiles to quick change of WLAN settings

- Easy replaceable battery

- Name display in call list

- Clear lists in charger

- Manual and automatic keypad lock

- Integrated site survey tool

Configuration options

- Local telephone configuration and software update via Desktop Programmer and tool running on a PC, connection between PC and Desktop Programmer via USB

- Over the air configuration via Wireless Service Gateway (WSG)

Accessories

- Leather case

- Swivel-type clip

- Security cord

- Desktop charger, AC adapter (by geographical region)

- Wide range of headsets available

- Desktop Programmer (via USB) with Portable Device Manager

- Charging rack for phones and batteries

Wireless Service Gateway (WSG)

The WSG is used as an all-in-one solution for centralized management, messaging and alarm handling. It includes a central phonebook which can be accessed from the OpenStage WL3 telephones. In addition, the WSG provides interfaces to LDAP and to external messaging/alarming applications which handle message and alarm processes. One of these applications is the OpenScape Alarm Response system (OScAR).

The WSG web-based application runs on a Linux-based application platform. It is intended for connections via IP only.

Characteristics

- 1 LAN port

- 1 mini-USB port for easy local management

- Designed to be mounted on a wall (horizontally or vertically) and to fit in 19" rack.

- Tri-color LEDs for status and power indications

- Buttons for switching the operation mode and for controlled restart of the module

Specifications

Physical

- Dimensions (h × w × d):
  44 × 220 × 199 mm
  (1.73" x 8.66" x 7.83")

- Weight: 1,520 g

- Material: Sheet metal/plastic

- Color: Grey/white

Functional

Supply voltage: 100 - 240 V AC ±20%

Environmental

- Operating temperature:
  0 °C to +40 °C (+32 °F to +104 °F)

- Storage temperature:
  -25 °C to +55 °C (-13 °F to +131 °F)

- Relative humidity:
  30 to 85% (non condensing)

- Enclosure protection: IP30

Protocols

- TCP/IP

- IP addressing: DHCP, fixed

- Configurable DSCP

- LDAP

- OAP